UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,624	04/19/2007	Shunji Suzuki	062926	1930
38834 7590 05/13/2009 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
			HARRIS, GARY D	
SUITE 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			05/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	A P C M -	A I' (/-)			
	Application No.	Applicant(s)			
Office Action Comments	10/593,624	SUZUKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	GARY D. HARRIS	1794			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 23 A 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1.2 and 4 is/are pending in the application Papers 4) Claim(s) 1.2 and 4 is/are pending in the application Papers 4) Claim(s) 1 2 is/are allowed. 6) Claim(s) 1 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection to the Replacement drawing sheet(s) including the correction and request that any objection are request that any objection a	om consideration. or election requirement. er. cepted or b) □ objected to by the B drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

Response to Arguments

Applicant's arguments, see remarks, filed 4/23/2009, with respect to the rejection(s) of claim(s) 1-3 under 35 U.S.C. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of US Sagawa et al. US 5,194,098 and further in view of Nomura et al. US 2004/0094237.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 & 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Sagawa et al. US 5,194,098, and further in view of Nomura et al. US 2004/0094237.

As to Claim 1, US Sagawa et al. US 5,194,098 discloses in the 5th embodiment a rare earth film Fe-B-R where R is 8-30 percent, and consisting of Yttrium (a rare earth lanthanide element), Fe and B in which the crystals are present (Col. 3, Line 19-26). The film alloys are amorphous in nature (composite texture) and discloses that the process of making includes a sintering process to produce any desired shape and size (Col. 5, Line 39-46). Sagawa discloses that the crystal grain sizes range from 2 to 40

Art Unit: 1794

microns and increase the Hc of various materials based on their critical size and would overlap applicants range (Col. 6, Line 41-46). Nevertheless, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made, since it has been held that choosing the over lapping portion, of the range taught in the prior art and the range claimed by the applicant, has been held to be a *prima facie* case of obviousness, see *In re Malagari*, 182 USPQ 549.

With regard to the thickness range, the Examiner deems that it would have been obvious to optimize the thickness of the final alloy depending on the desired end use, especially given the size ranges of the particulate and the fact that the powder can be compressed and sintered into any desired shape and size (Col. 5, Line 39-46 and Examples).

Sagawa et al. US 5,194,098 does not disclose R₂Fe₁₄B crystals. However,

Nomura et al. US 2004/0094237 discloses that R-Fe-B magnets are structured with a
hard magnetic phase of R₂Fe₁₄B is present as the primary phase and grain boundary
moieties surround the primary phase grains (Paragraph 5). The R2Fe14B phase would
necessarily/inherently be present in the Sagawa invention.

As to Claim 2, Sagawa et al. US 5,194,098 discloses the material is amorphous which would inherently/necessarily have a random orientation.

Application/Control Number: 10/593,624 Page 4

Art Unit: 1794

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GARY D. HARRIS whose telephone number is (571)272-6508. The examiner can normally be reached on 8AM - 5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Bernatz, acting SPE for Carol Chaney, can be reached on 571-272-1505. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gary Harris
/G. D. H./
Examiner, Art Unit 1794

/Kevin M Bernatz/ Acting SPE of Art Unit 1794

May 11, 2009